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NaPdf1

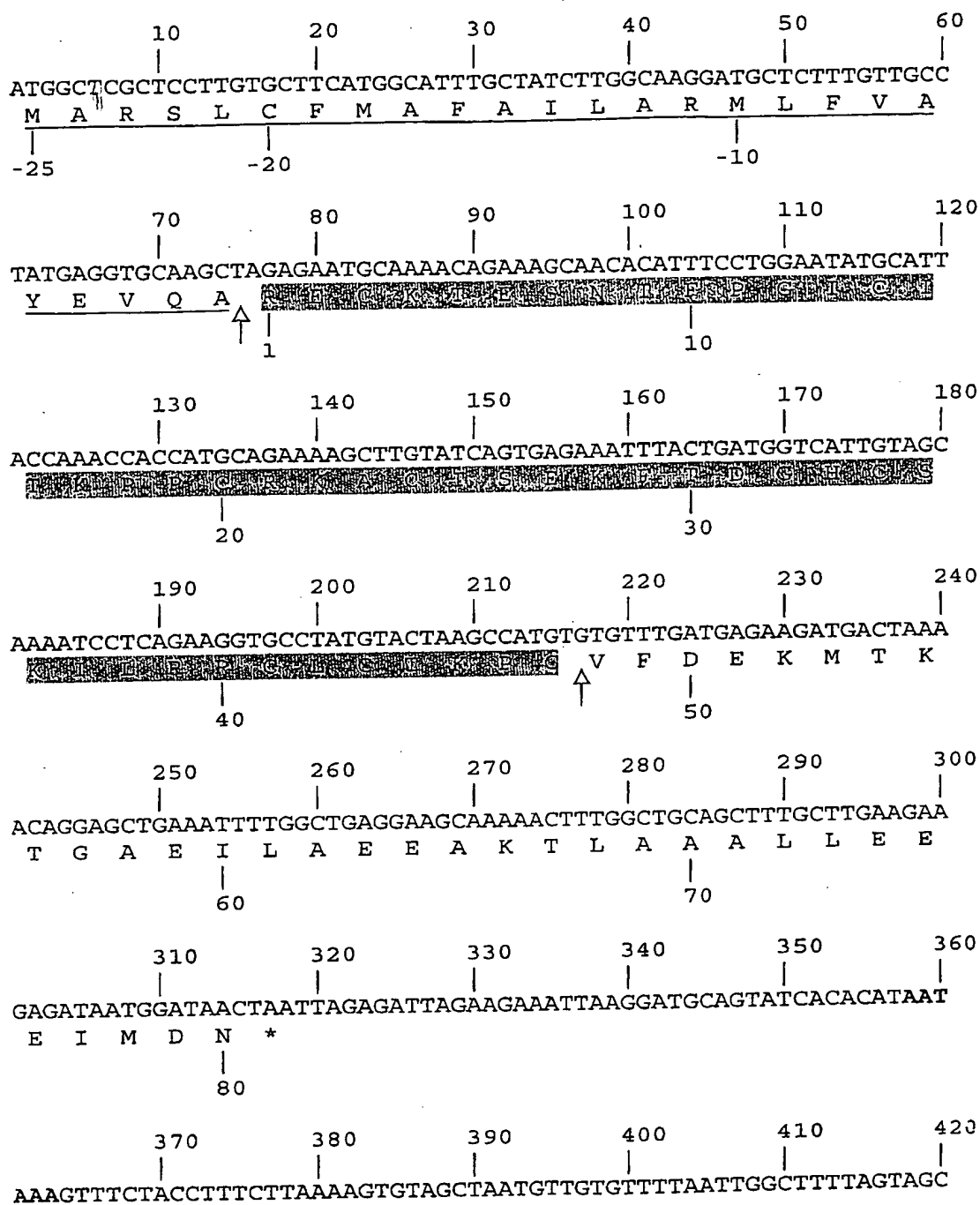


Figure 1

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430 440 450 460 470 480
| | | | |
CTTTTATTACACTTTTAAATAAGTGTGGCACTTCAATCCTTTGTGCAATCTTGCACTAAGT
490 500 510 520 530 540
| | | | |
TTATTGTGTACTTTTAATGAAAATGACCTTCTATGGTCTTTGGTTAAAAAAAAAAAAA
541
|
A

Figure 1 continued

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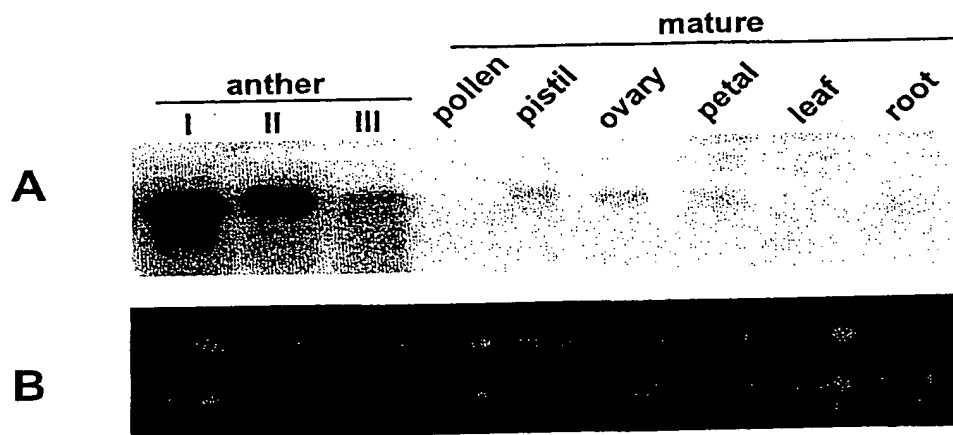


Figure 2

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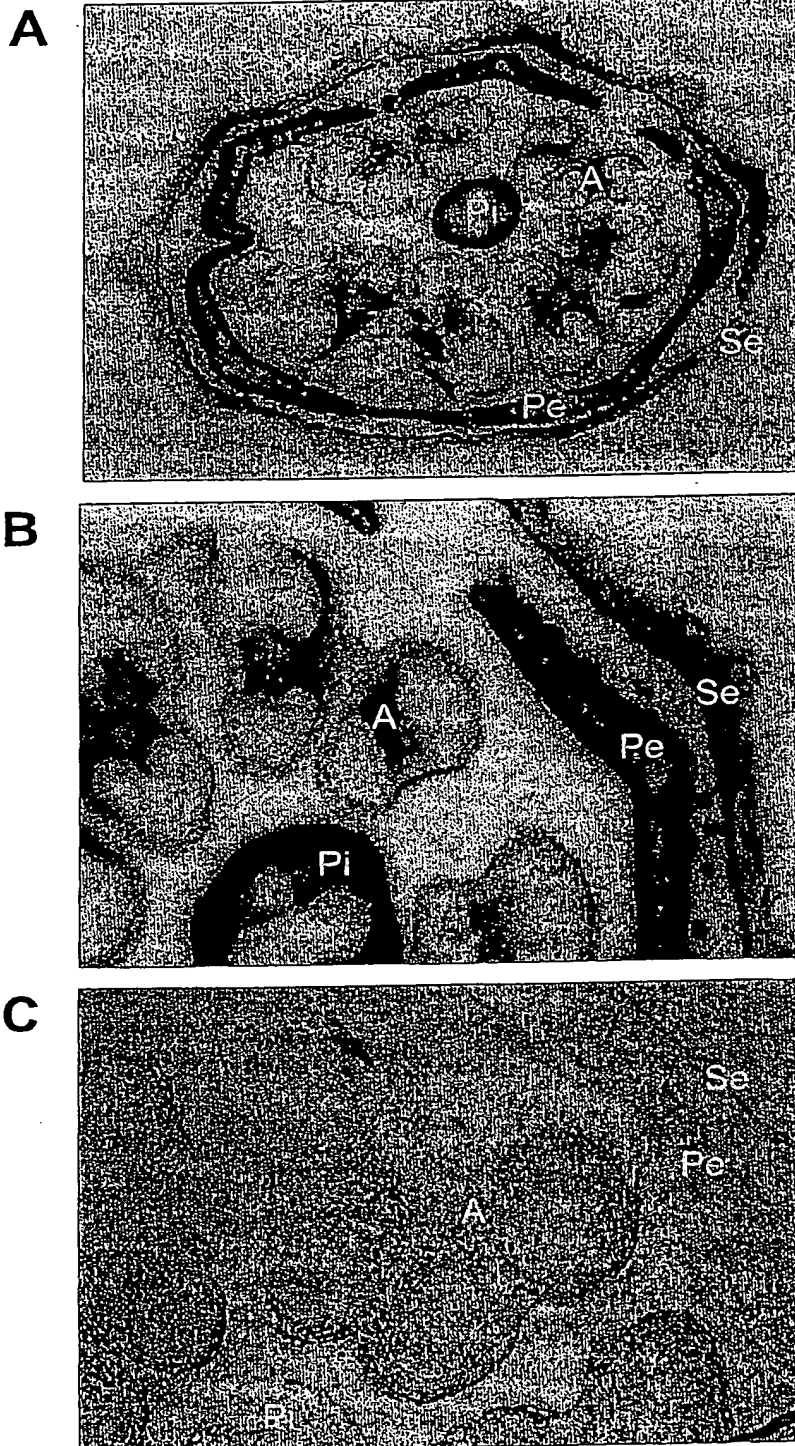


Figure 3

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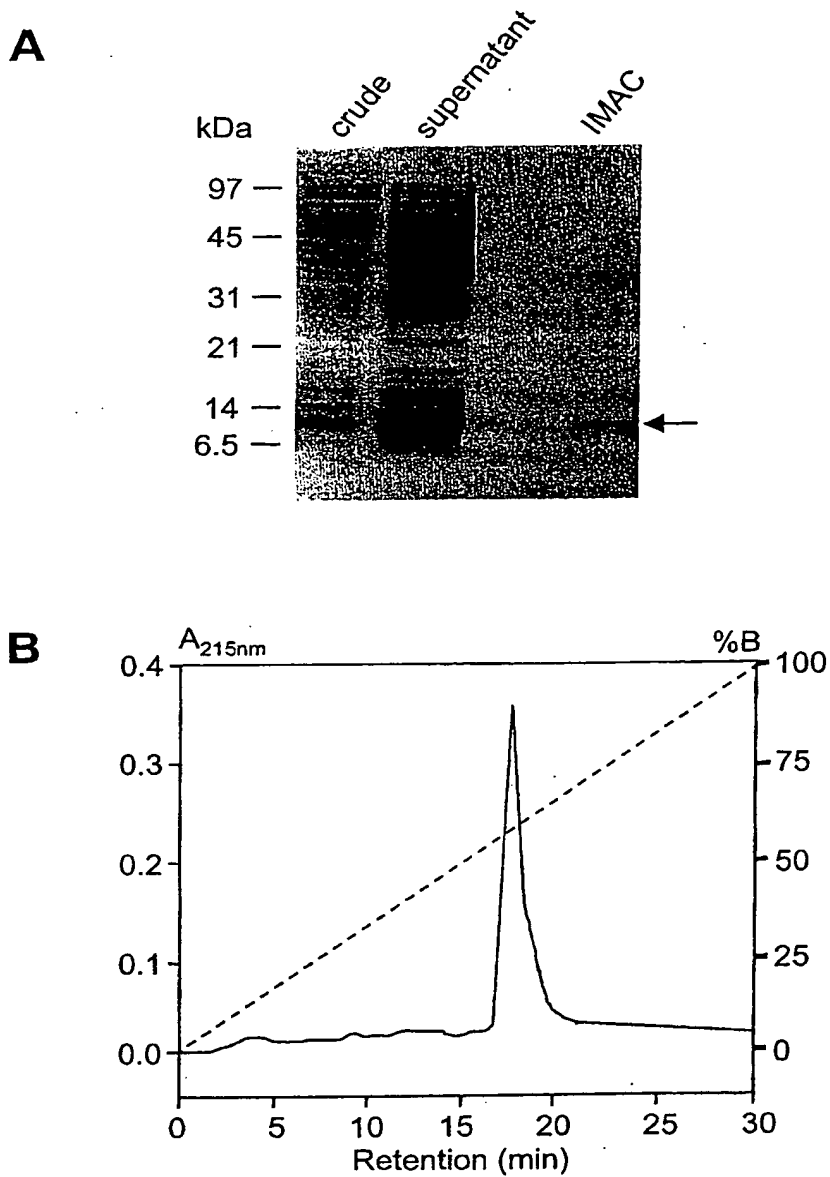


Figure 4

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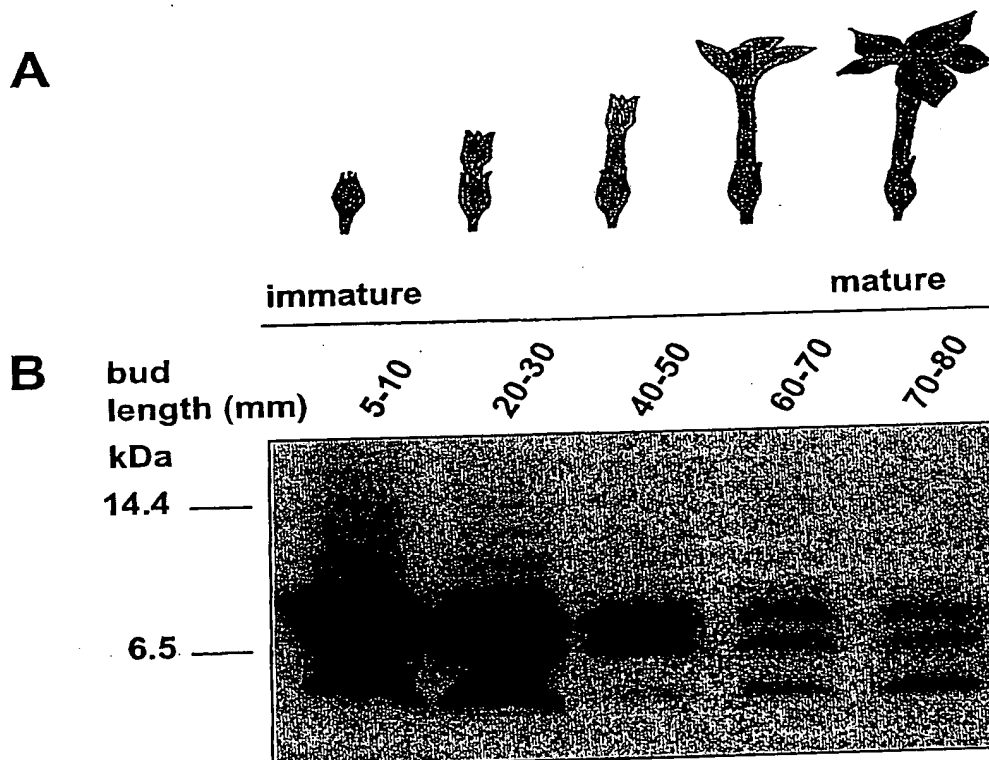


Figure 5

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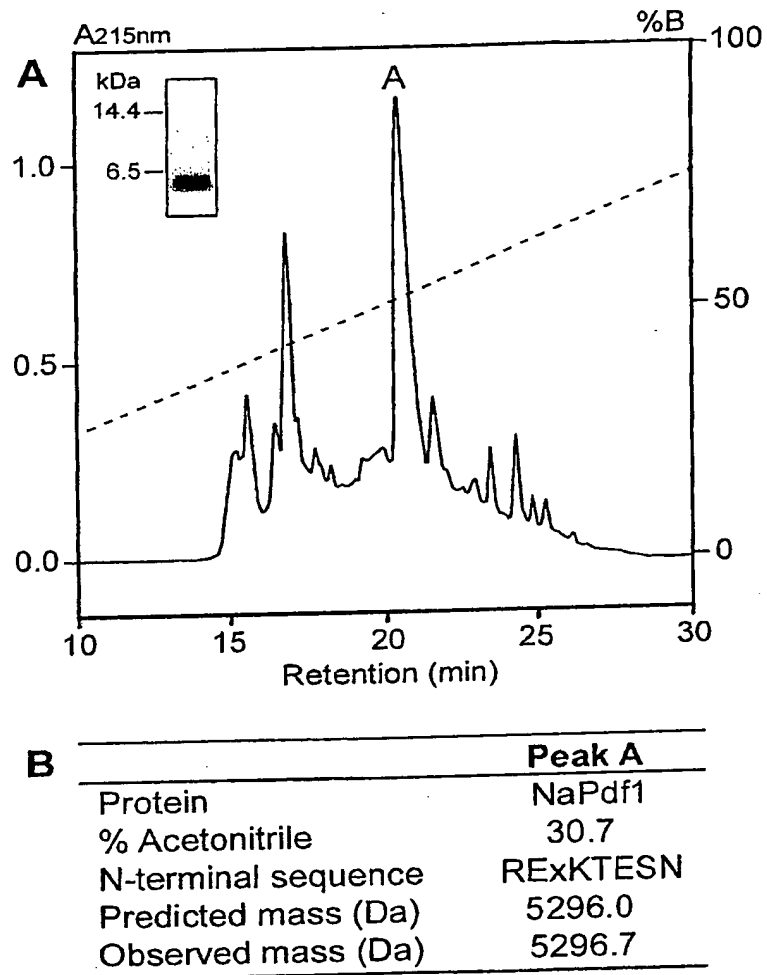


Figure 6

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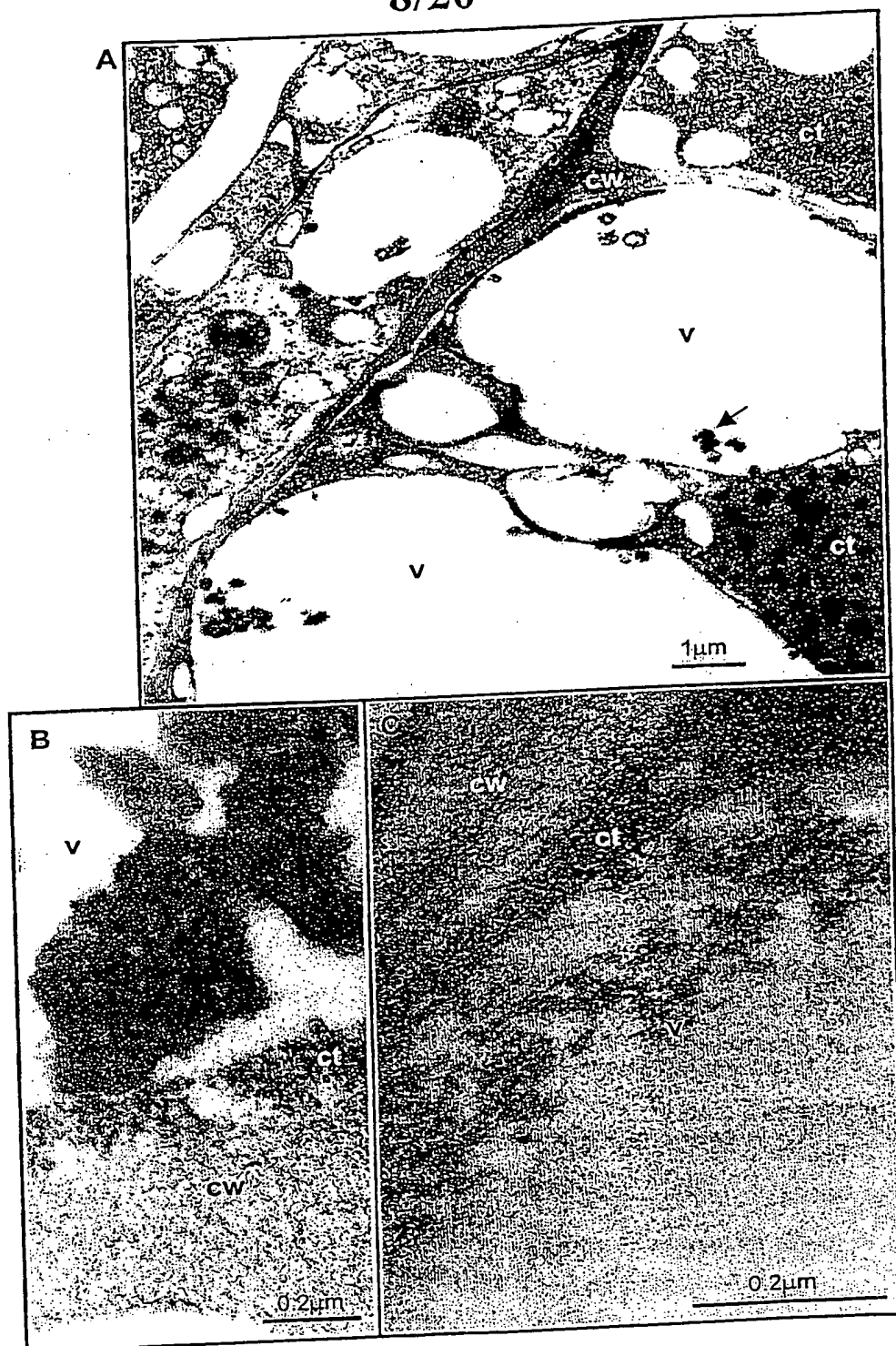


Figure 7

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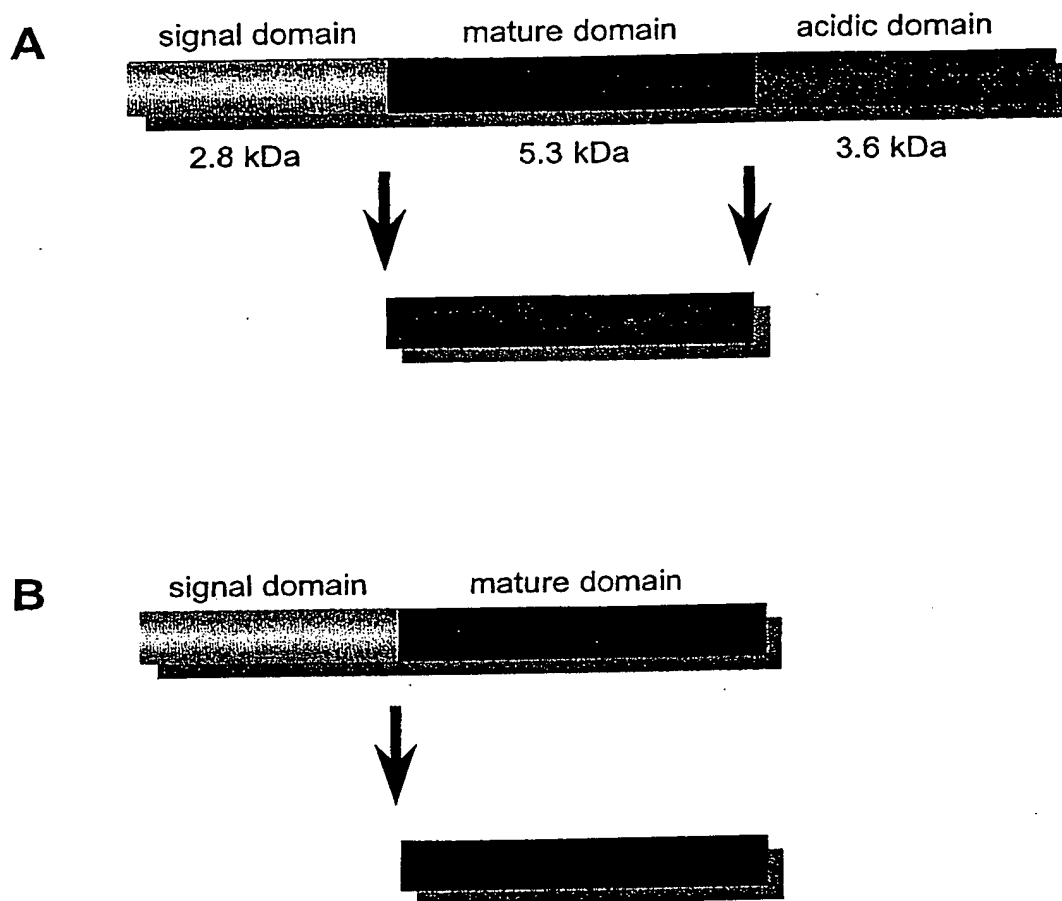


Figure 8

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| | | |
|---------|-----------|--|
| NaPdf1 | (<400>18) | MARSLCFMAFAILAMMLFVAYEV-----QA-RECKTESNTFFPGICITKPP |
| FST | (<400>20) | MARSLCFMAFAILAMMLFVAYEV-----QA-RECKTESNTFFPGICITKPP |
| TTP3 | (<400>21) | MARSIFFMAFLVLAMMLFVITYEV-----EAQQICKAPSQTFFGLCFMDSS |
| NTS13 | (<400>22) | MANSMRFFATVLLIALLVLTATEMGPMTIAEA-RTCESQSHRFKGPCSRDSN |
| PPT | (<400>23) | MGRSIRLFATFFLIAMLFSTMGPM TSAEA-RTCESQSHRFHGTCVRESN |
| ATPIIIa | (<400>24) | MKLSMRLISAVLIMFMIFVATGMGPVT-VEA-RTCESQSHRFKGTCSASN |

| | |
|---------|---|
| NaPdf1 | CRKACISEKFTDGHCSKILRRCLCTKPCVFDEKMTKTGAEILAEAAKTLAAALLEEEIMDN |
| FST | CRKACISEKFTDGHCSKILRRCLCTKPCVFDEKMIKTGAETLVEEAKTLAAALLEEEIMDN |
| TTP3 | CRKYCIKEKFTGGHCSKLQRKCLCTKPCVFDKISSEVKA-TLGEEAKTLSEVVLEEEIMME |
| NTS13 | CATVCLTEGFSGGRCPWIPPRCFCTSPC----- |
| PPT | CASVCQTEGFIGGNCRAFRRRCFCTRNC----- |
| ATPIIIa | CANVCHNEGFGVGGNCRGFRRCFCTRHC----- |

Figure 9

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| | | | |
|-------------------------|---------|--|-----------|
| Nicotiana alata | Napdf1 | -REC-KTESNTPP-GICITKPPCRKACIS-EKFTDGH-CSK--LLRRCLCTKPC- | (<400>8) |
| Nicotiana tabacum | FST | -REC-KTESNTPP-GICITKPPCRKACIS-EKFTDGH-CSK--LLRRCLCTKPC- | (<400>25) |
| Lycopersicon esculentum | TPP3 | -QIC-KAPSQTFP-GLCFMDSCKRYCIK-EKFTGGH-CSK--LQKCLCTKPC- | (<400>26) |
| Solanum tuberosum | P322 | -RHC-ESLSHRFK-GPCTRDNSCASVCET-ERFSGGN-CHG-F-RRRCFCCTKPC- | (<400>27) |
| Petunia inflata | PPT | -RTC-ESQSHRPH-GTCVRESNCAVCQT-EGFIGGN-CRA-F-RRRCFCCTRNC- | (<400>28) |
| Glycine max | SE60 | -RVC-ESQSHGFH-GLCNRDHNCAVCRNE-G-FSGGRCKG-F-RRRCFCCTRIC- | (<400>29) |
| Hordeum vulgare | Y1-H | -RIC-RRRSAGFK-GPCVSNKCAQVCMQE-G-WGGNCDG--PLRRCKMRRRC- | (<400>30) |
| Sinapis alba | M2A | pQKLC-QRPSGTWS-GVCGNNACRNQCINLEKARHGS-CNYVFPAAHKCIYFPC- | (<400>31) |
| Solanum tuberosum | PTH-St1 | -RNC-ESLSHRFK-GPCTRDSNC----- | (<400>32) |
| Raphanus sativus | Rs-AFP1 | pQKLC-ERPSGTWS-GVCGNNACKNQCNLEKARHGS-CNYVFPAAHKCIYFPC- | (<400>33) |
| Raphanus sativus | Rs-AFP2 | pQKLC-QRPSGTWS-GVCGNNACKNQCNLEKARHGS-CNYVFPAAHKCIYFPC- | (<400>34) |
| Sinapis alba | M1 | pQKLC-ERPSGTWS-GVCGNNACKNQCNLEKARHGS-CNYVFPAAHKCIYFPC- | (<400>35) |
| Sinapis alba | M2B | pQKLC-ARPSGTWSGNCRRNNACRNFCIKLEKSRHGS-CNIPPSNKCICYFPC- | (<400>36) |
| Triticum turgidum | Y1-P | -KIC-RRRSAGFK-GPCMSNKNCAQVCQE-G-WGGNCDG--PFRRCCKIRQC- | (<400>37) |
| Triticum turgidum | Y2-P | -KVC-RQRSAGFK-GPCVSDKNCAQVCLQE-G-WGGNCDG--PFRRCCKIRQC- | (<400>38) |
| Vigna unguiculata | 10kDa | -KTC-ENLVDTYR-GPCFTTGSCDDHCKNKEHLISGR-CR---DDVRCWCCTRNC- | (<400>39) |
| Sorghum bicolor | Sia2 | -RVC-MGKSAGFK-GLCMRDQCAQVCLQE-G-WGGNCDG--VMRQCKCIRQCW | (<400>40) |
| Sorghum bicolor | Sia3 | -RVC-RRRSAGFK-GLCMSDHCAQVCLQE-G-WGGNCDG--VIRQCKCIRQCW | (<400>41) |
| Dalia merckii | Dm-AMP2 | -EVC-EKASKTWS-GNCGNTGHC----- | (<400>42) |
| Sorghum bicolor | Sia1 | -RVC-MKGSQHS-FPCISDRLCSNECVKEGGWTAGYCH----LRYCRCQKAC- | (<400>43) |
| Pisum sativum | P1230 | -NTC-ENLAGSYK-GVCF--GGCDRHCRTOEGALISGR-CR---DDFRWCCTKNC- | (<400>44) |
| Aesculus hippocastanum | Ah-AMP1 | --LCNERPSQTWS-GNCGNTAHCDCQCDWEKASHGA-CHKRENHWKCFCYFNC- | (<400>45) |
| Heuchera sanguinea | Hs-AFP1 | -KLC-DVPSGTWS-GHCSSSSKCSQCKDREHFAYGGACHYQFSPVKCFCKRQC- | (<400>46) |
| Dalia merckii | Dm-AMP1 | -ELC-EKASKTWS-GNCGNTGHCNDQCKSWEGAHA-CHVRNGKHMCFCYFNC- | (<400>47) |
| Pisum sativum | P139 | -NTC-EHLADTYR-GVCFTNASCDHCKNKAHLISGT-CH----DWKCFCTQNC- | (<400>48) |
| Clitoria ternatea | Ct-AMP1 | -NLC-ERASLTWT-GNCGNTGHCDDTQCRNWESAKHGA-CHKRGN-WKCFCYFNC- | (<400>49) |

Figure 10

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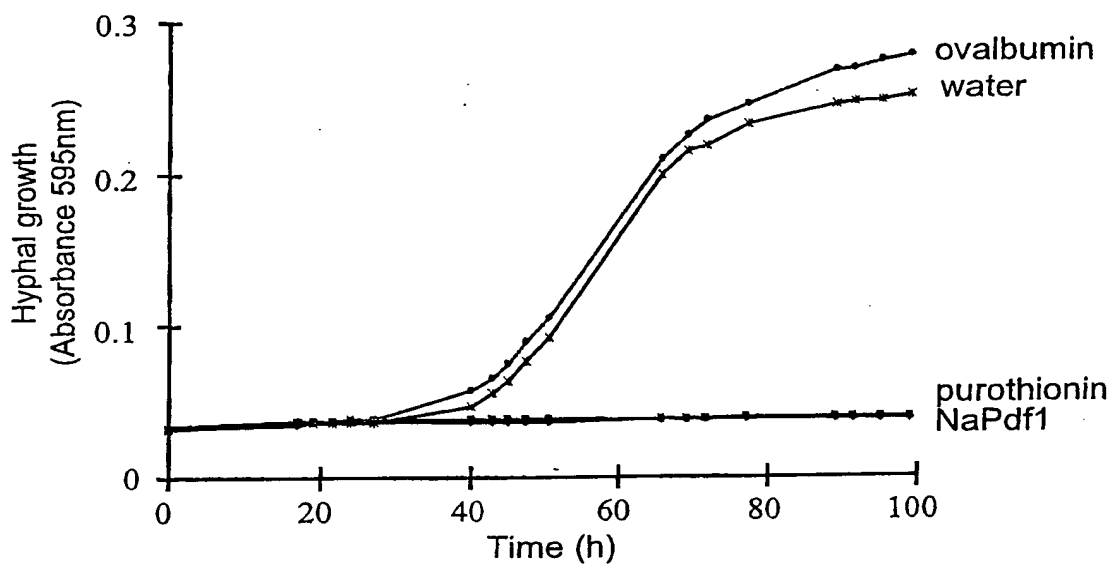


Figure 11

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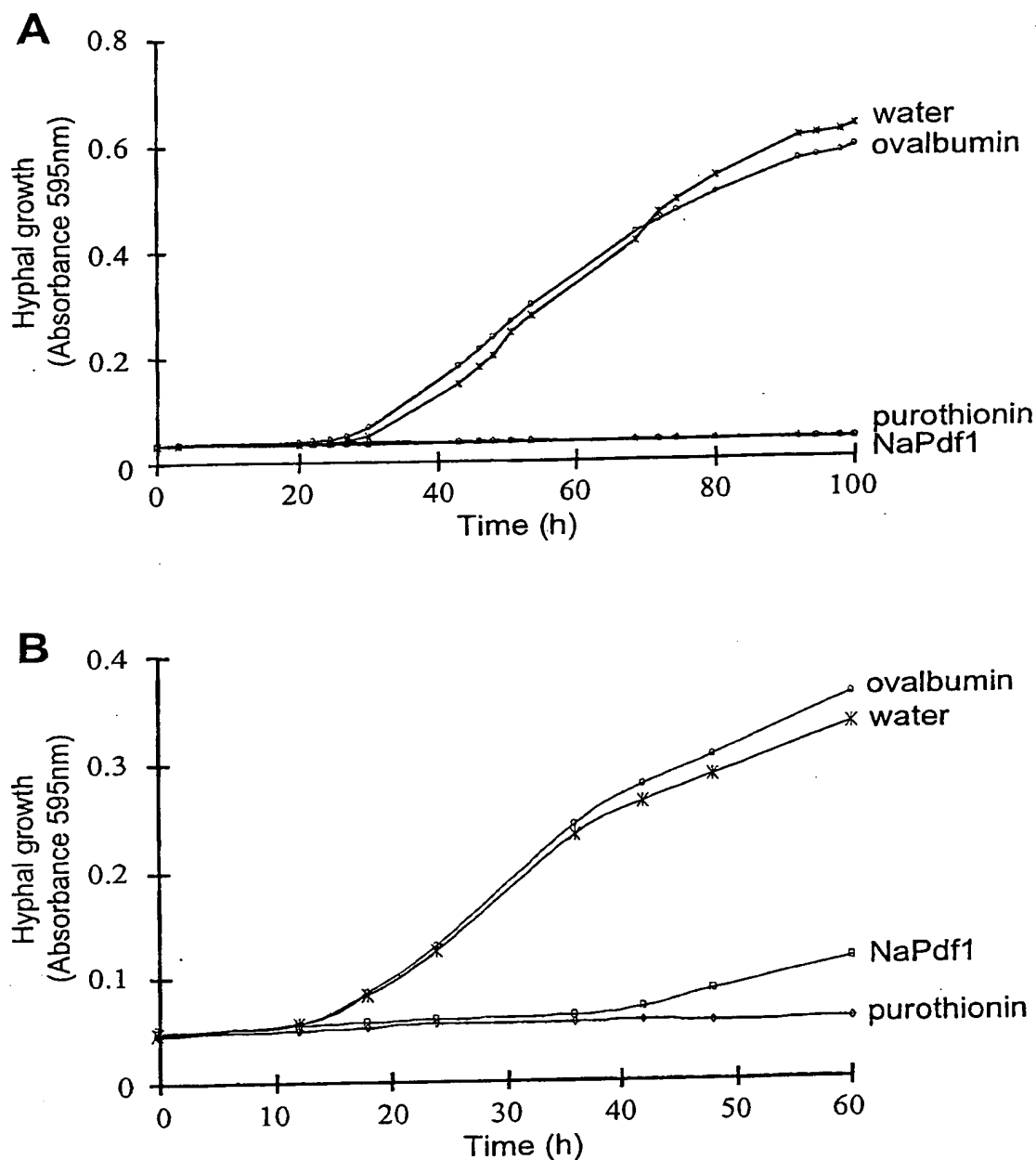


Figure 12

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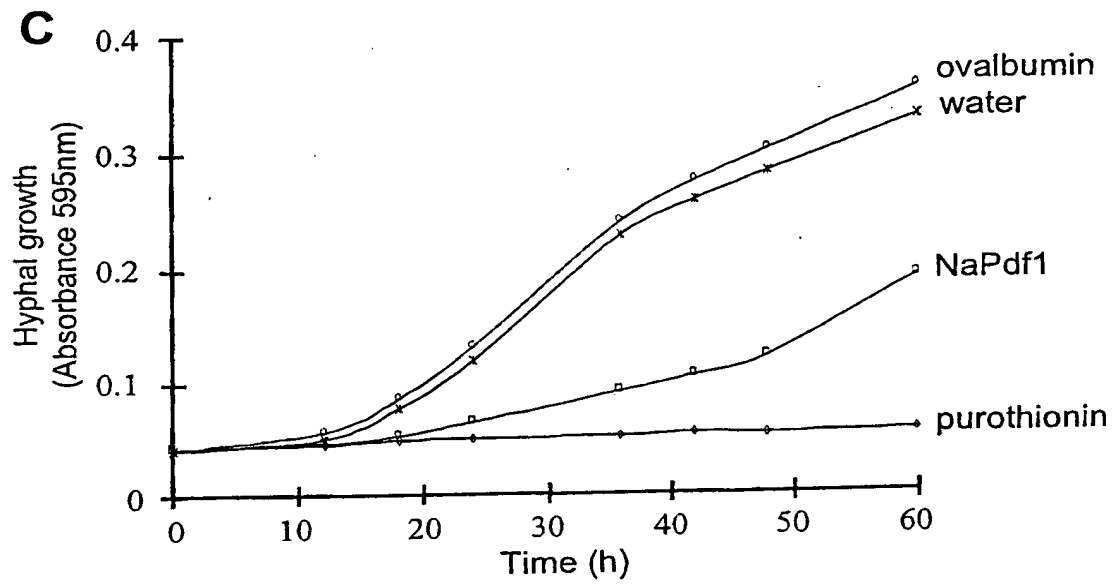


Figure 12 continued

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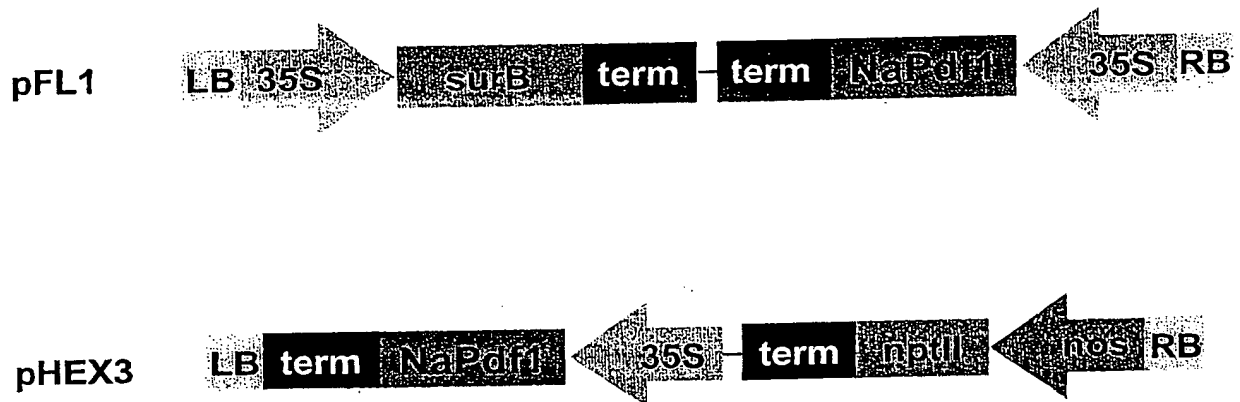


Figure 13

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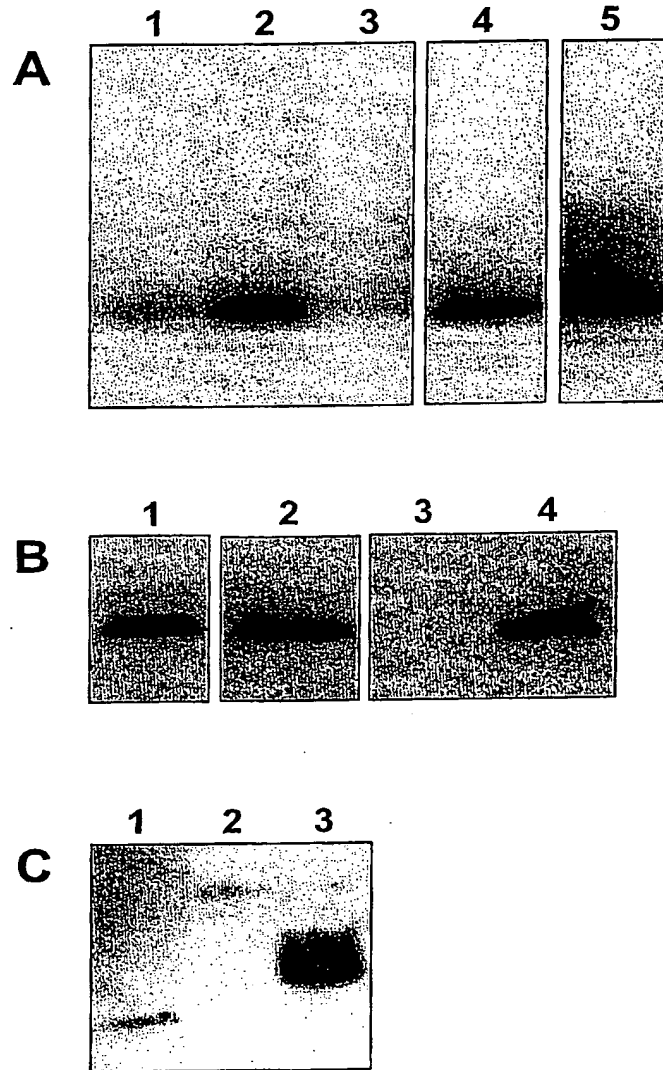


Figure 14

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H. punctigera bioassay with transgenic tobacco

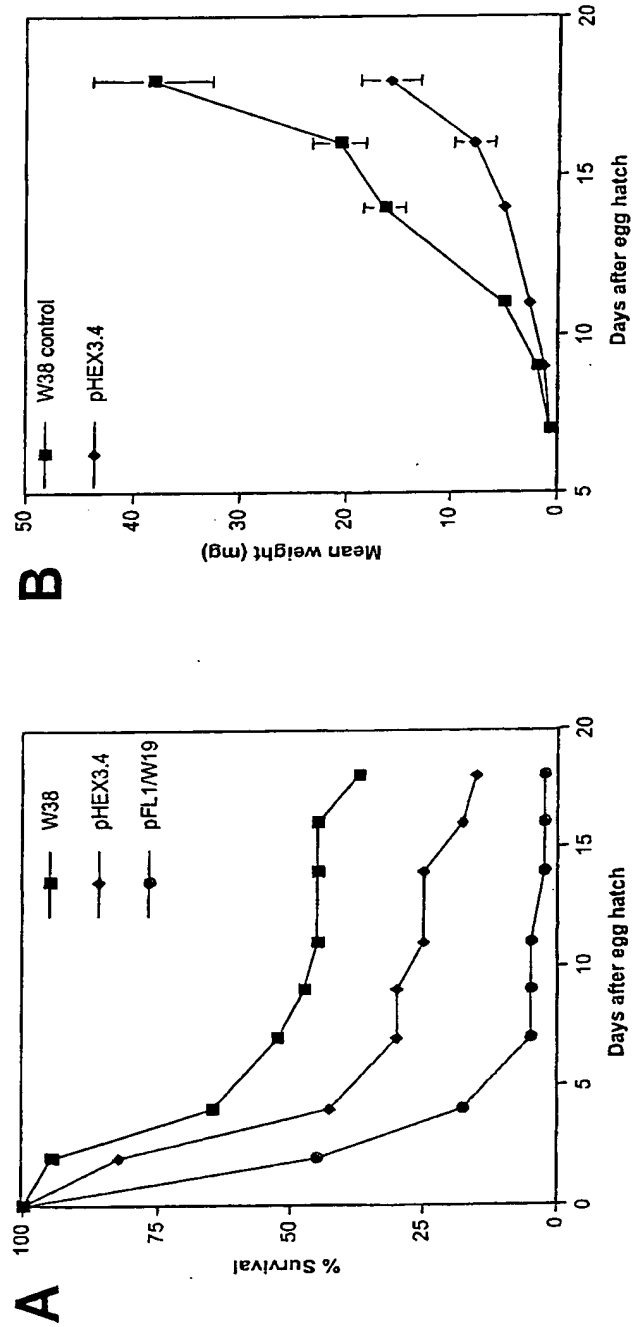


Figure 15

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H. armigera bioassay with transgenic tobacco

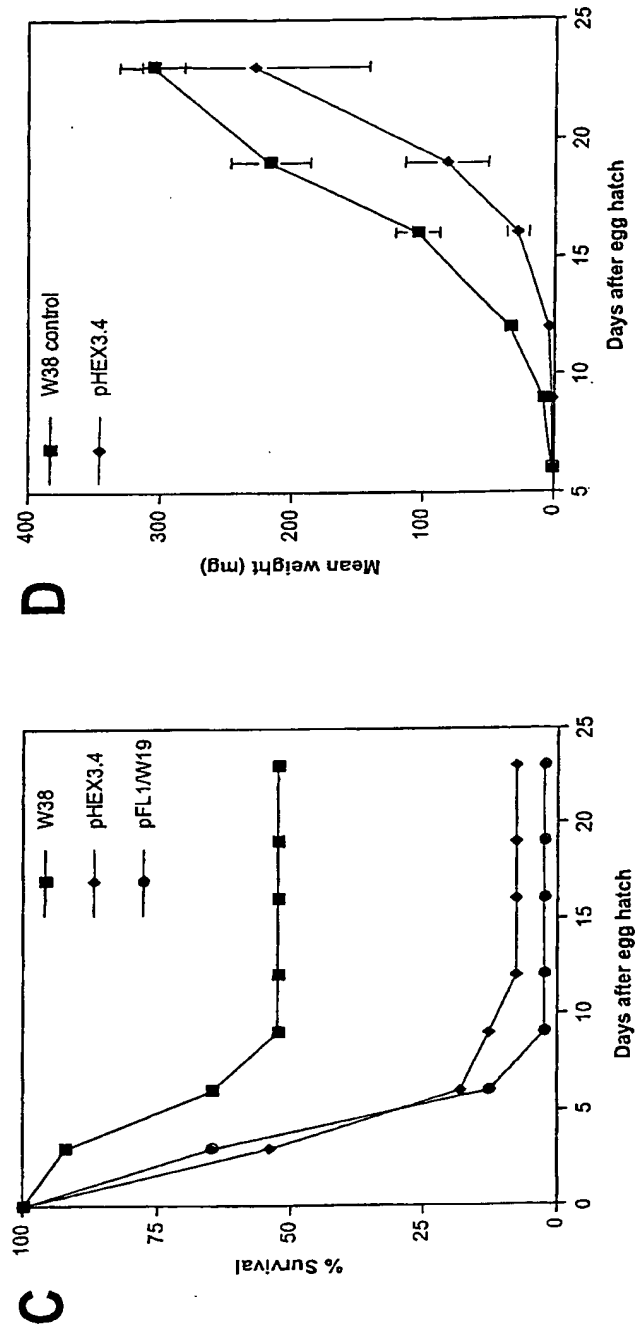


Figure 15 continued

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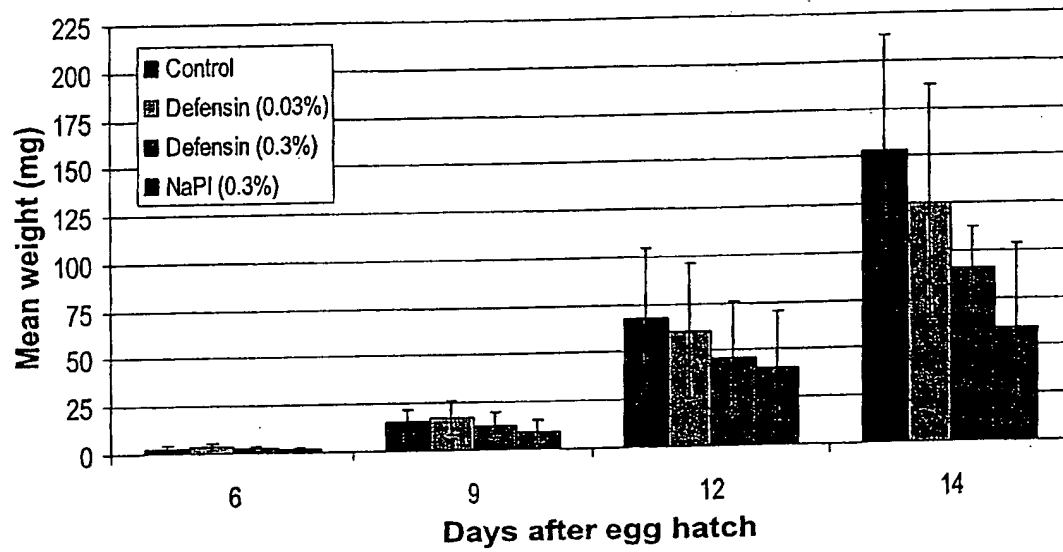


Figure 16

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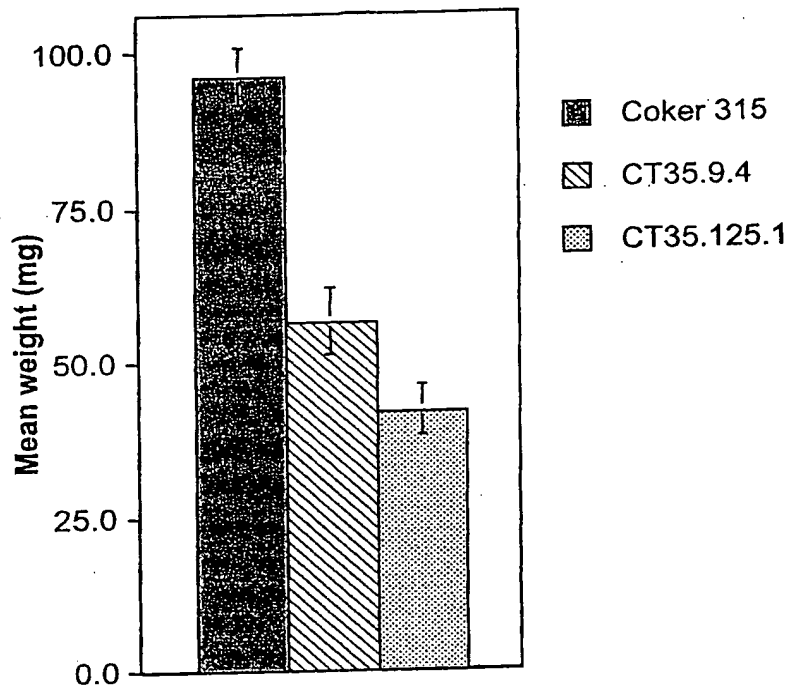


Figure 17